## TEMPERATURE MEASURING DEVICE AND SYSTEM AND METHOD INCORPORATING THE SAME

## **ABSTRACT**

[0036] A system having a heat source, a component coupled to the heat source, and at least one thermistor coupled to the component and adapted to monitor temperature of the component, wherein the thermistor has a core-shell microstructure having a shell disposed about a core, the core comprising Cr<sub>2</sub>O<sub>3</sub> and the shell comprising a rare earth element compound.